

# Testing Your Recall

name \_\_\_\_\_

date \_\_\_\_\_

1. Define the following terms:

Orbit:

Ellipse:

Axis:

Equator:

2. Draw a picture of Earth's orbit around the Sun, labeling the Sun, Earth, and the path Earth takes around the Sun.

3. When it is summer in the Northern Hemisphere, is Earth closer or farther away from the Sun?

4. Why isn't the change in Earth's distance from the Sun enough to cause the seasons?

5. Why is it summer in the Northern Hemisphere when it is tilted towards the Sun and winter in the Southern Hemisphere?

6. Draw a picture of the Sun and Earth showing Earth's tilt when it is summer in the Southern Hemisphere.

7. In what hemisphere is Australia located?



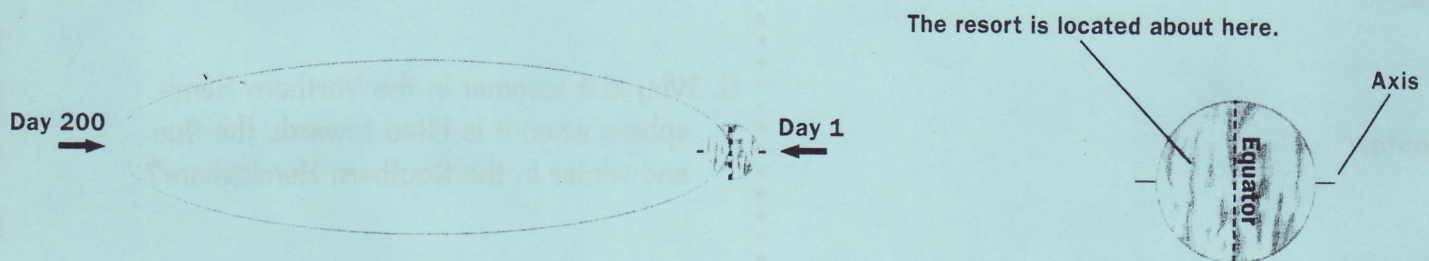
# Apply What You Learned

name \_\_\_\_\_

date \_\_\_\_\_

## Read the following passages and complete the instructions below.

Wow! The future is amazing. Worm holes allow travel to distant planets in a flash. In fact, you can vacation just about anywhere in the universe. I've been scoping out one planet in particular. The brochure says it has warm oceans, giant beaches, and incredible scenery, like nothing you'd see on Earth. The resort I want to go to is located in the planet's Southern Hemisphere, and I want to make sure I go at the right time. Maybe you can help me. Here's what I know. The planet, called Cryxxlyx, is tilted on its axis at 90 degrees relative to its sun. It takes about 400 days for the planet to complete one orbit of its sun. Does it matter when during its orbit I go to that resort? I've drawn a little diagram of the planet and its orbit. I've also marked the location of the resort. Remember, I want warm temperatures and lots of sunshine.



1. In your own words, describe the problem above.
2. During what days of the planet's orbit around its sun would it be best to visit the resort? Be sure to explain your reasoning.
3. On what days would it be a big mistake to visit the resort? Again, be sure to explain your reasoning.